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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/764,125	01/23/2004	Mark Zdeblick	021308-000710US	6091	
61487	7590 09/18/2006		EXAM	EXAMINER	
BOZICEVIC, FIELD & FRANCIS LLP (PROTEUS BIOMEDICAL, INC)			BOCKELMA	BOCKELMAN, MARK	
	ERSITY AVENUE, SUITE 2	00	ART UNIT	PAPER NUMBER	
EAST PALC	ALTO, CA 94303		3766	3766 DATE MAILED: 09/18/2006	
			DATE MAILED: 09/18/2000		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	A					
		Applicant(s)					
Office Action Summers	10/764,125	ZDEBLICK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Mark W. Bockelman	3766					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -	-				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time till apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	I. sely filed the mailing date of this communica					
Status							
1) Responsive to communication(s) filed on							
	action is non-final.						
3) Since this application is in condition for allowan		secution as to the merits	s is				
closed in accordance with the practice under E							
Disposition of Claims							
4) Claim(s) 1-99 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	·						
8) Claim(s) 1-99 are subject to restriction and/or e	lection requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	oriority under 35 H.S.C. & 119/a).	-(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	51101kg and 61 03 0.0.0. 3 1 10(a)	(d) or (i).					
1. Certified copies of the priority documents	have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
1ttochmont(o)							
Attachment(s) Notice of References Cited (PTO-892)	4) 🗖 Intended Commerce	DTO 412)					
P) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da						
B) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal Pa						
Paper No(s)/Mail Date 6)							

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- ١. Claims 1-10, drawn to an implantable cardiac sensors / telemetry system. classified in class 600, subclass 301.
- 11. Claims 11-20 drawn to implantable sensor that spans a cardiac wall, classified in class 600, subclass 481.
- III. Claims 21-27, drawn to a sensor for measuring cardiac wall displacement, classified in class 600, subclass 508.
- IV. Claims 28-33, drawn to a sensor for measuring contractility, classified in class 600, subclass 587
- V. Claims 34-42 drawn to a method of calculating cardiac performance using a body fluid constituent classified in class 600, subclass 309.
- VI. Claims 43-68 and 89-99, drawn to a method of measuring a cardiac value based up ratios between a cardiac characteristic and a myocardial characteristic, classified in class 600, subclass 301.
- VII. Claims 69-80, drawn to a method of calculating a cardiac efficiency, classified in class 600, subclass 301.
- VIII. Claims 81-88, drawn to a method of calculating a myocardial elasticity value, classified in class 128, subclass 898.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-V as compared to VI -VIII are related as products and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the methods do not require any of the particulars of the apparatus claim such as the specific sensor configurations or the use of external data recited in the apparatus claims.

Inventions I as compared to II - IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it does not require the shape or function of the subcombinations. The subcombination has separate utility such as sensors that do not use applicant's means of communication externally.

Inventions II as compared to III -IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the sensor

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function is not recited. The subcombination has separate utility such as sensors designed for single wall surface support.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions measure different cardiac properties.

Inventions VI and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions use different modes of operation, using different calculations (i.e ratios) as well as different input parameters.

Inventions I-IV as compared to V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not

overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination sensors and systems has separate utility such as used in an interfacing system that does not used the second parameters specified in group V. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Upon the election of group VI, the examiner requires a further election of species.

This application contains claims directed to the following patentably distinct species as found on page 23 of applicant's specification:

Species I - a method of calculating a ventricular performance value I1

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Species II - a method of calculating a ventricular performance value I2

Species III - a method of calculating a hypertrophy value (H)

Species IV - a method of calculating a myopathy value (M)

Species V - a method of calculating a cardiac elasticity value (E)

The species are independent or distinct because the calculated values represent alternative cardiac value parameters using different measurements.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark W. Bockelman whose telephone number is (571) 272-4941. The examiner can normally be reached on Monday - Friday 10:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571) 272 -6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MWB

September 8, 2006

MARK BOCKELMAN PRIMARY EXAMINER